



Radial Freeway

Strategic Improvement Program





I-575

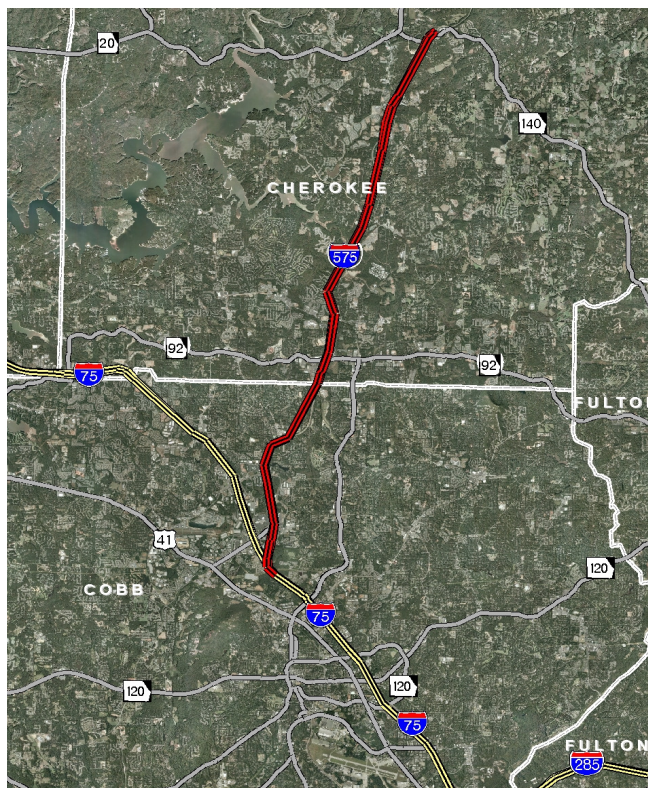
Corridor Resource Guide

Radial Freeway Strategic Improvement Plan





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- Introduction
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- *Envision6* RTP -
Programmed and
Planned Projects



Radial Freeway
Strategic Improvement Plan

Introduction



This Corridor Resource Guide documents the current (2007) and forecast (2030) travel conditions along I-575 from I-75 to SR 140. The Guide also provides detail on planned and programmed projects that are included in the Atlanta Region's *Envision6* RTP along this section of I-575.



Radial Freeway
Strategic Improvement Plan

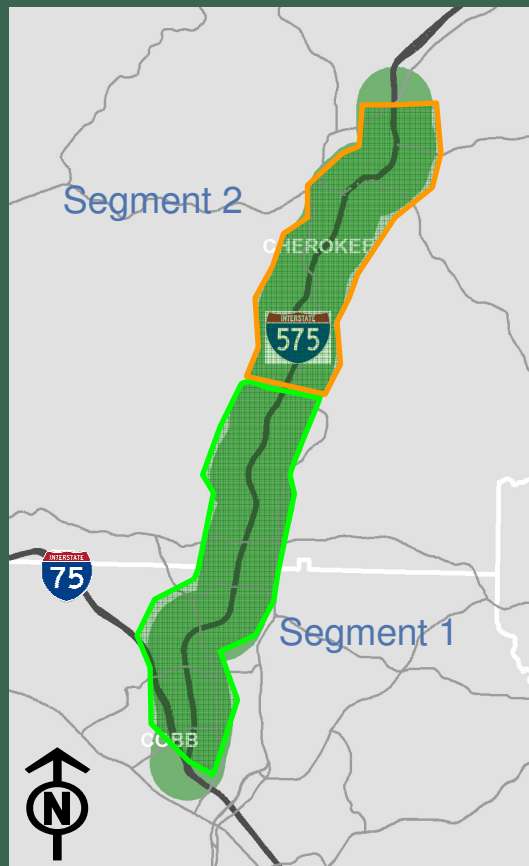
Corridor Overview

Segment 1: From I-75 to Sixes Road

Length = 11 miles
Average Interchange Spacing = 1.83
2 GP Lanes, No HOV lanes
Parallel Corridors: SR 754

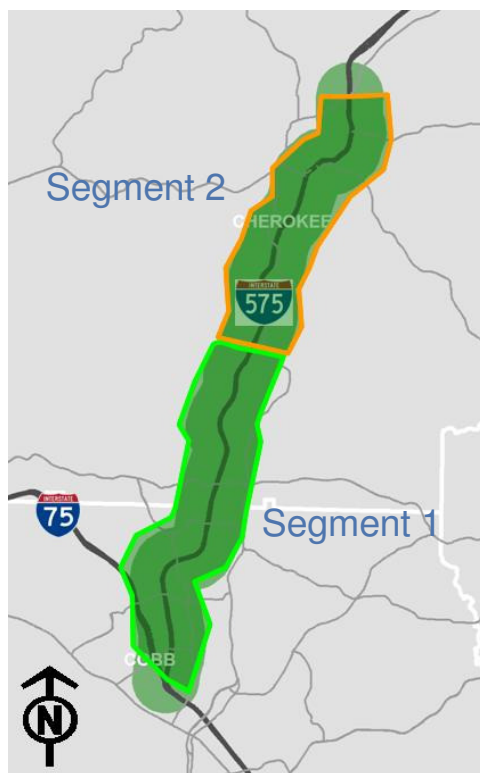
Segment 2: From Sixes Road to SR 140

Length = 5 miles
Average Interchange Spacing = 2.5
2 GP Lanes, No HOV lanes
Parallel Corridors: N/A





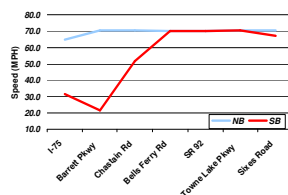
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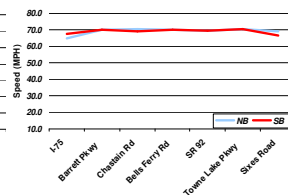
EXISTING TRAVEL SPEED 1

Segment 1

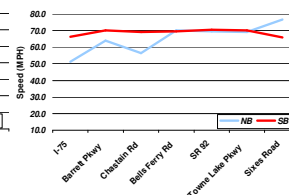
AM Peak Period



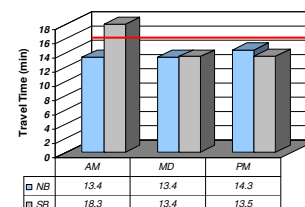
Midday Period



PM Peak Period



EXISTING TRAVEL TIME 1



Travel Time (14.3 min)
Based on speed of 65 mph

Segment 2

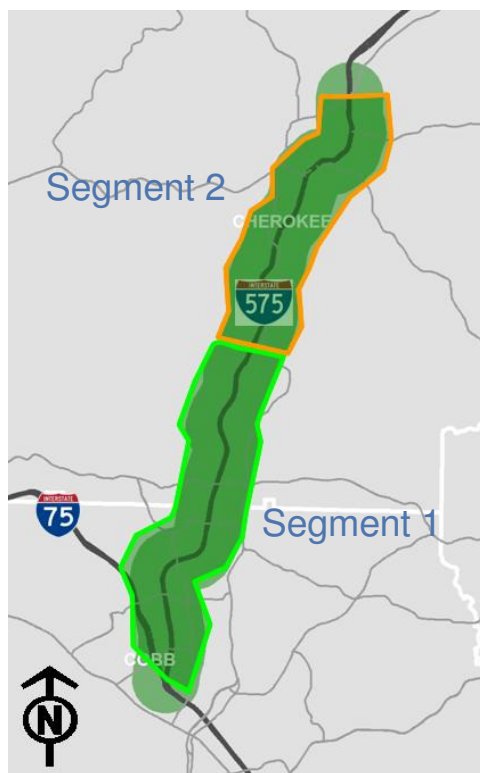
DATA UNAVAILABLE

AM Period = 7:00 AM to 10:00 AM
Midday Period = 10:00 AM to 3:00 PM
PM Period = 3:00 PM to 7:00 PM

1 – Based on 2007 Field Data



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	TRAVEL TIME INDEX (TTI) ¹	DURATION OF CONGESTION ¹	VOLUME/ CAPACITY (V/C) RATIO ¹
s e g m e n t 1	<ul style="list-style-type: none"> ■ 2005 TTI = 2.58 ■ 2030 TTI = 3.55 ■ Percent Increase = 38% <p><i>CMTF Target TTI = 1.35</i></p>	<ul style="list-style-type: none"> ■ 2005 Daily Congestion = 3.96 hours ■ 2030 Daily Congestion = 5.08 hours ■ Percent Increase = 28% 	<ul style="list-style-type: none"> ■ 2005 V/C Ratio = 0.99 ■ 2030 V/C Ratio = 1.05 ■ Percent Increase = 6%
s e g m e n t 2	<ul style="list-style-type: none"> ■ 2005 TTI = 1.22 ■ 2030 TTI = 1.84 ■ Percent Increase = 51% <p><i>CMTF Target TTI = 1.35</i></p>	<ul style="list-style-type: none"> ■ 2005 Daily Congestion = 0.00 hours ■ 2030 Daily Congestion = 2.01 hours ■ Percent Increase = N/A 	<ul style="list-style-type: none"> ■ 2005 V/C Ratio = 0.67 ■ 2030 V/C Ratio = 0.90 ■ Percent Increase = 33%
<p>TTI = Congested Travel Time / Free Flow Travel Time Congestion Management Task Force (CMTF) Target TTI = 1.35</p> <p>Duration of congestion represents the amount of time transportation networks are congested Daily Congestion = Number of Congested Hours (Above an "Acceptable" V/C of 0.90)</p> <p>¹ – Based on Model Data (Envision 6)</p>			



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Strategic Improvement Plan

Programmed and Planned Project Types

Envision6 Project Types

- Roadway Operational Upgrades
- Roadway Maintenance / Operations
- ITS-Smart Corridor
- **General Purpose Roadway Capacity***
- **Managed Lanes - Auto/Bus and Truck***
- **Transit Facilities***
- Bridge Capacity
- Bridge Upgrade
- **Interchange Capacity***
- Interchange Upgrade
- Fixed Guideway Transit Capital
- Studies



*Project types for I-575



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Envision6 Programmed and Planned Projects

Segment 1: From I-75 to Sixes Road

Managed Lanes (Auto/Bus)

- I-575 from I-75 to SR 5 Business Managed Lanes (Auto)

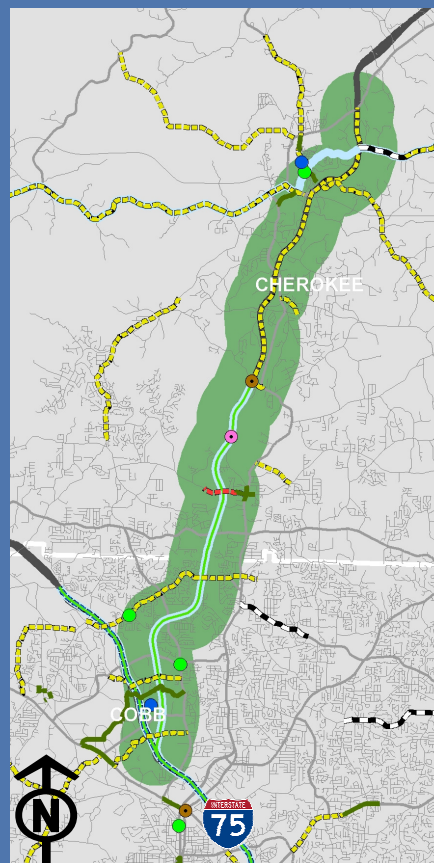
Interchange Capacity

- I-575 from I-75 to Sixes Road Interchange Capacity
- New Interchange at Ridgewalk Parkway

Segment 2: From Sixes Road to SR 140

Transit Facilities

- I-575 from I-75 to SR 5 Business Transit Facilities
- Transit Facilities at SR 140



Legend

- Bridge Capacity; Bridge Upgrade
- General Purpose Roadway Capacity
- Interchange Capacity; Interchange Upgrade
- Managed Lanes (Auto/Bus)
- ▲ Pedestrian Facility
- Roadway Operational Upgrades
- Studies
- Transit Facilities
- Bridge Capacity; Bridge Upgrade
- General Purpose Roadway Capacity
- Interchange Capacity; Interchange Upgrade
- Managed Lanes (Auto/Bus)
- Multi-Use Bike / Ped Facility
- Roadway Maintenance/Operations/Upgrades
- Studies
- Transit Facilities
- ITS-Smart Corridor; ITS-Other



Radial Freeway
Strategic Improvement Plan

Envision6 Programmed and Planned Projects

I-575 from I-75 to SR 5 Business

ARC ID – AR-917

Type – Roadway Capacity

Status – Long Range

Phase – Preliminary Engineering

Fiscal Year – LR 2021-2030

Total Phase Cost

\$2,150,000

I-575 from I-75 to SR 5 Business

ARC ID – AR-917

Type – Roadway Capacity

Status – Long Range

Phase – Construction

Fiscal Year – LR 2021-2030

Total Phase Cost

\$112,691,200

Project Summary

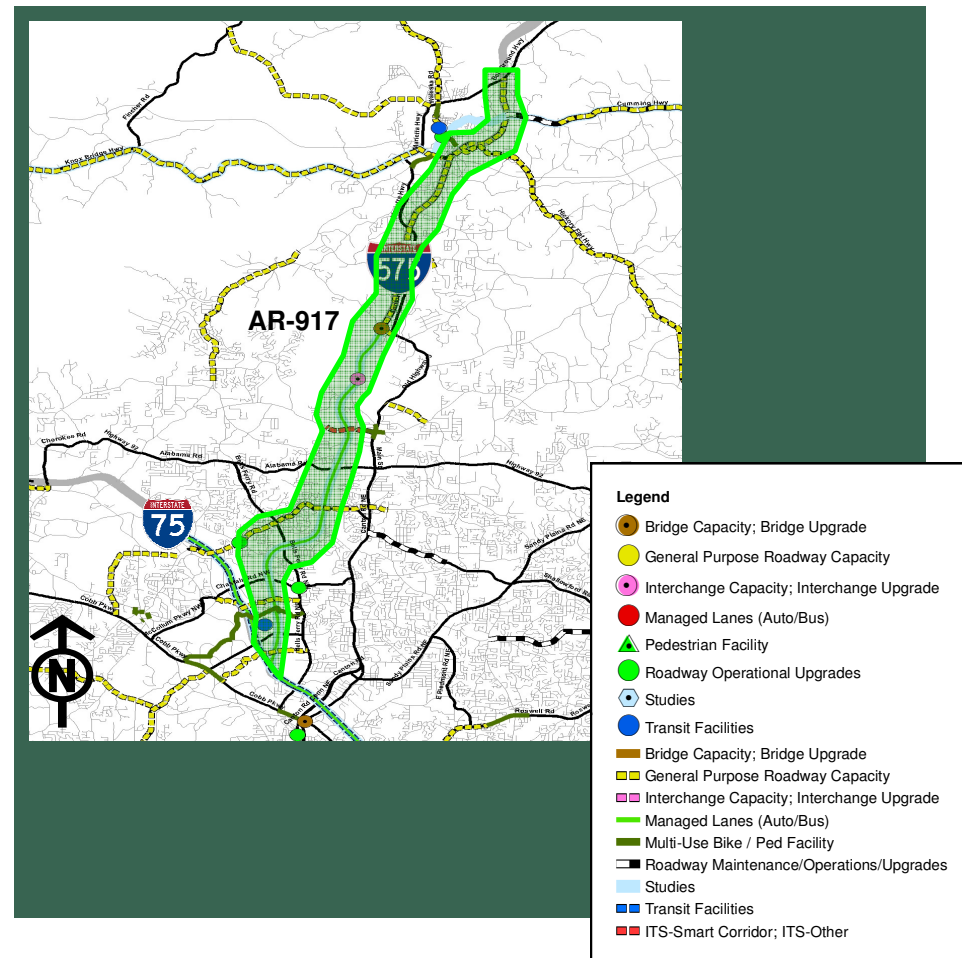
Congressional District 6 & 11

Sponsor - GDOT

Jurisdiction – Multi-Jurisdictional

Total Project Cost

\$114,841,200





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Envision6 Programmed and Planned Projects

I-575 from I-75 to Sixes Road

ARC ID – AR-935A,B,C,D

Type – Managed Lanes (Auto)

Status – Programmed

Phase – Right-of-Way

Fiscal Years – 2009-2011

Total Phase Cost

\$125,172, 000

I-575 from I-75 to Sixes Road

ARC ID – AR-935A,B,C,D

Type – Managed Lanes (Auto)

Status – Programmed

Phase – Construction

Fiscal Year – LR 2014-2020

Total Phase Cost

\$465,769,998

Project Summary

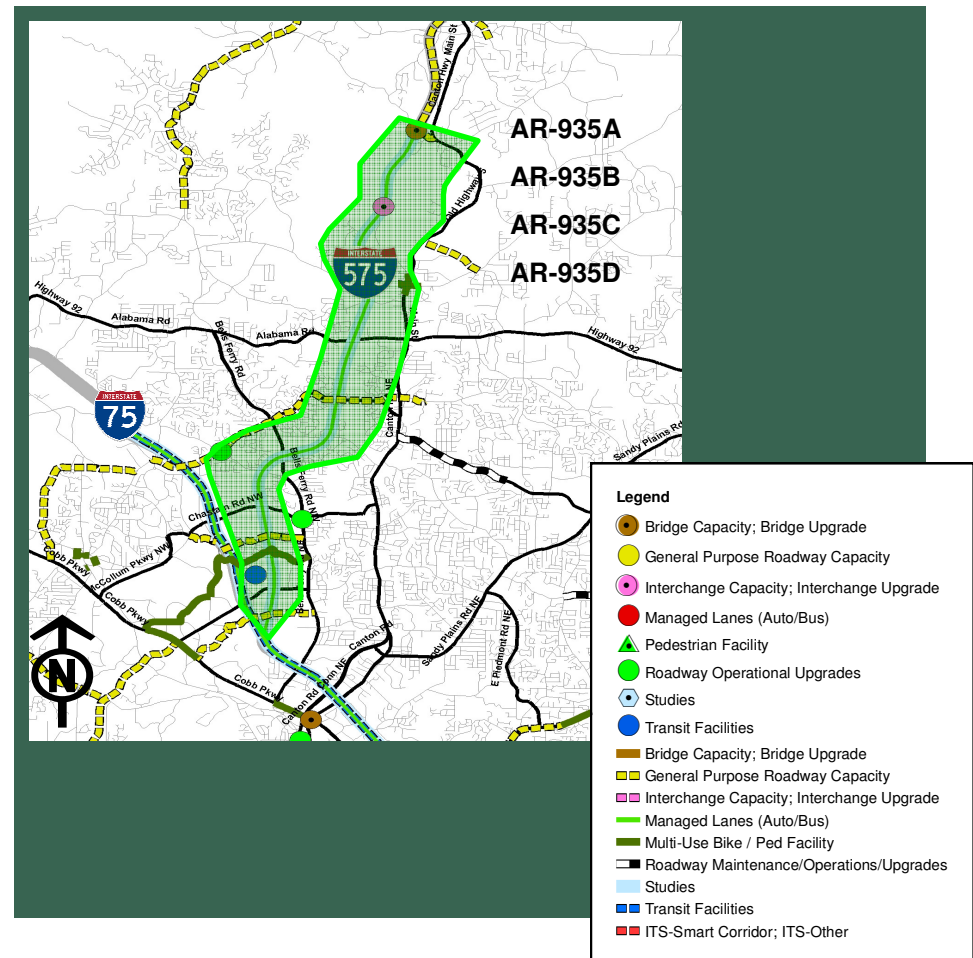
Congressional District 6 & 11

Sponsor – GDOT

Jurisdiction – Multi-Jurisdictional

Total Project Cost

\$528,352,998





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Envision6 Programmed and Planned Projects

New Interchange at Ridgewalk Parkway

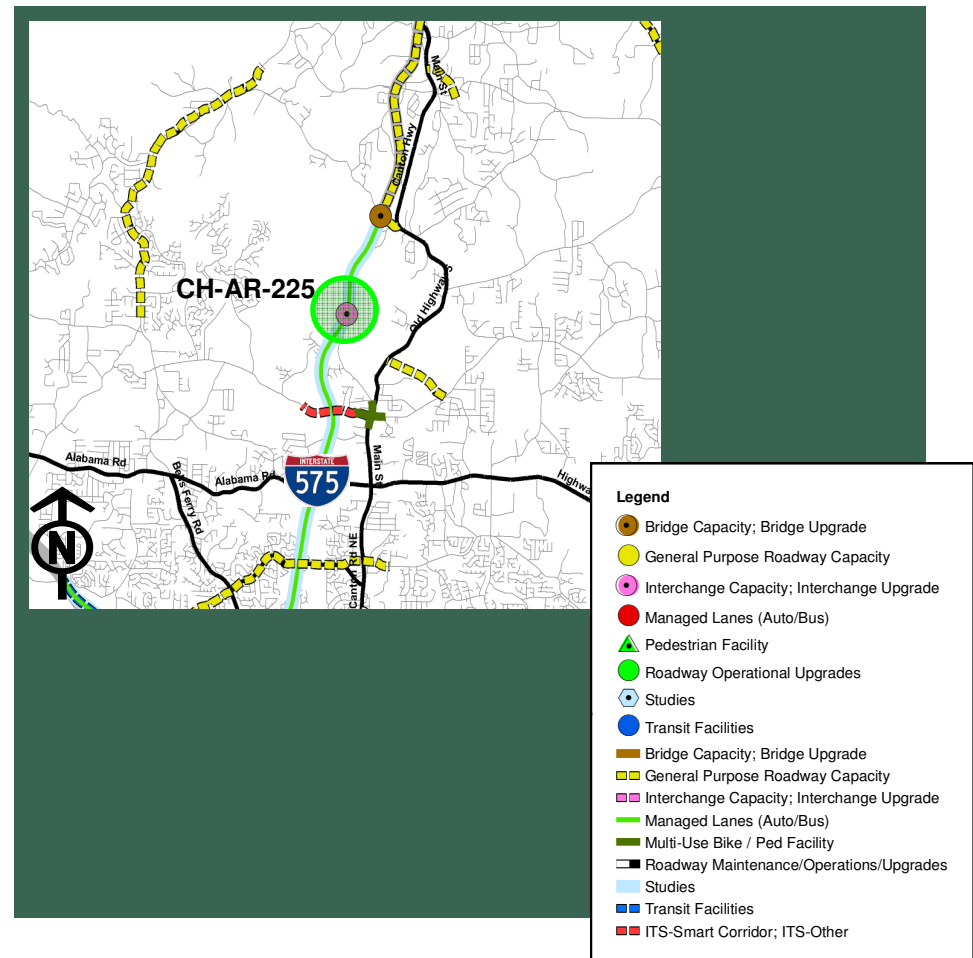
ARC ID – CH-AR-225
Type – Interchange Capacity
Status – Programmed
Phase – Right-of-Way
Fiscal Year – 2009
Total Phase Cost
\$3,500,000

New Interchange at Ridgewalk Parkway

ARC ID – CH-AR-225
Type – Interchange Capacity
Status – Programmed
Phase – Construction
Fiscal Year – 2010
Total Phase Cost
\$12,976,000

Project Summary

Congressional District 6
Sponsor – GDOT
Jurisdiction – Cherokee
Total Project Cost
\$16,476,000





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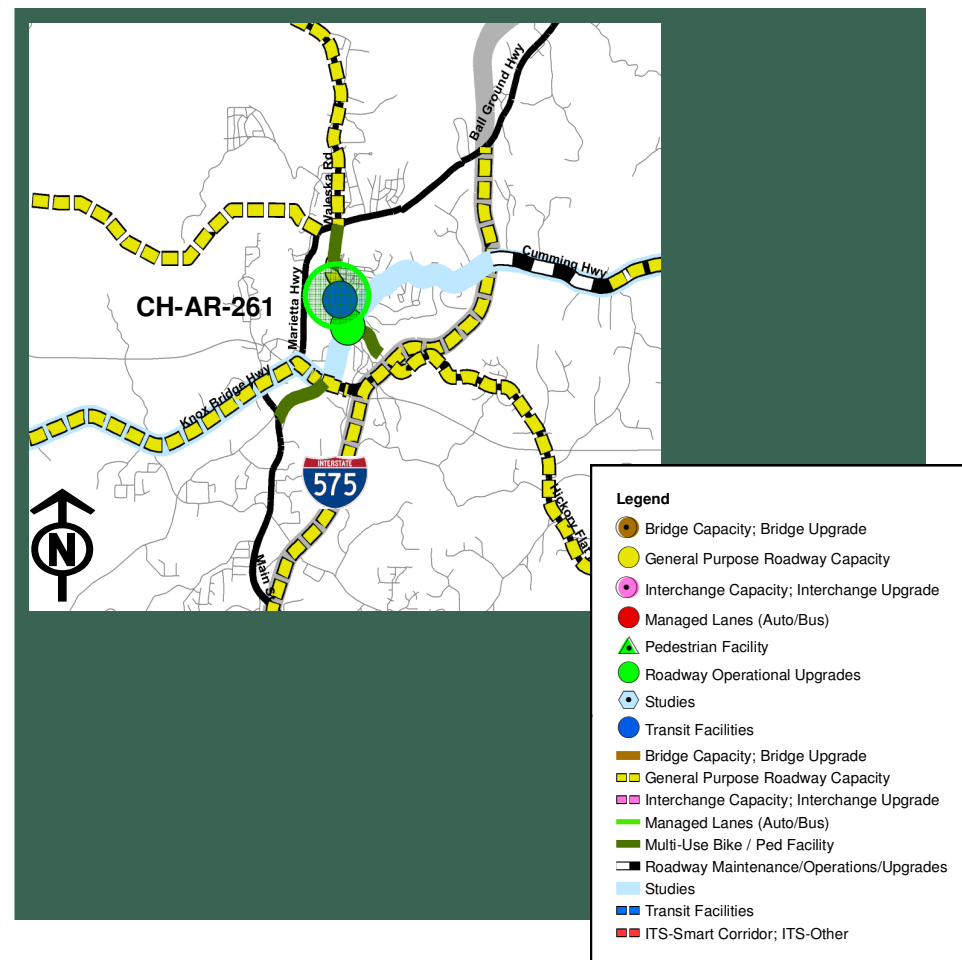
Envision6 Programmed and Planned Projects

Transit Facilities at SR 140

ARC ID – CH-AR-261
Type – Transit Facilities
Status – Programmed
Phase – Construction
Fiscal Year – 2009
Total Phase Cost
\$425,000

Project Summary

Congressional District 6
Sponsor – City of Canton
Jurisdiction – Cherokee
Total Project Cost
\$425,000





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Funding Sources

Envision6 **Project Funding Sources For I-575**

Federal

\$156,693,760 (23.74%)

State

\$39,088,440 (5.92%)

Local

\$85,000 (.01%)

Bond

\$464,230,998 (70.33%)

**Total Corridor Investment
\$660,098,198**

